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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/892,783	06/27/2001	Frank Bahren	Westphal.6313	9614	
7590 10/20/2005			EXAMI	EXAMINER	
Patrick J. O'Shea			CHANKONG, DOHM		
O'Shea, Getz & Kosakowski, P.C. 1500 Main Street			ART UNIT	PAPER NUMBER	
Suite 912			2152		
Springfield, MA 01115			DATE MAILED: 10/20/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Commence	09/892,783	BAHREN ET AL.
Office Action Summary	Examiner	Art Unit
	Dohm Chankong	2152
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI .136(a). In no event, however, may a reply be It will apply and will expire SIX (6) MONTHS fr te, cause the application to become ABANDO	ON. The timely filed  Tom the mailing date of this communication.  The property of the communication of the commun
Status		
<ul> <li>1) Responsive to communication(s) filed on 19 s</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowed closed in accordance with the practice under</li> </ul>	is action is non-final. ance except for formal matters,	
Disposition of Claims		
4) Claim(s) 7.10-14.18-23 and 25 is/are pending 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 7.10-14.18-23 and 25 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a Application Papers  9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according to the Replacement drawing sheet(s) including the correction.	ewn from consideration.  I.  or election requirement.  er.  cepted or b)  objected to by the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11) The oath or declaration is objected to by the E		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applic Ority documents have been rece au (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)  2) \( \sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) \( \sum \) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	

Application/Control Number: 09/892,783
Art Unit: 2152

#### DETAILED ACTION

- This action is in response to Applicant's RCE. Claim 7, 10-14, 18-23 and 25 are presented for further examination.
- 2> This is a non-final rejection.

## Response to Arguments

3> Applicant's arguments with respect to claims 7, 10-14, 18-23 and 25 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 7, 10, 12, 14, 18 and 20 are rejected under 35 U.S.C § 103(a) as being unpatentable over Ford et al, U.S Patent No. 6.101.499 ["Ford"] in view of Rode et al, U.S Patent No. 6.085.259 ["Rode"].
- As to claim 7, Ford discloses a first network which can be linked to a second network, the first network including a plurality of network devices linked with one

another and have an associated first address for unique identification in the first network [column 6 dines 54-57> | column 9 «lines 11-16»], a method for generating a second address for each said device comprising:

manipulating the first address of each device to derive the second address which uniquely identifies each such device in the second network [Figures 5a, 5b | Figures 3A-3C | column 2 lines 19-21> | column 3 <lines 39-46> | column 8 <lines 50-65> | column 7 <lines 25-64> | column 9 <lines 4-9> | column 10 «line 55» to column 11 «line 33» where: Ford manipulates the Ethernet address of each device by appending a network identifying portion (prefix) to the Ethernet address.].

Ford does not disclose however, manipulating the first address by mathematically summing the first address with a predetermined number, the sum representing the second address.

Rode is directed towards an addressing system for dynamically generating addresses for devices in a network such that the addresses are unique and do not conflict. One embodiment of Rode's innovation are devices in a car. Rode discloses manipulating a first address of a device by mathematically summing a predetermined number and the first address to derive the second address which is the sum of the first address and the predetermined number [column 2 «lines 19-35»]. Ford is also directed towards dynamically generating addresses for devices. Thus, it would have been obvious to one of ordinary skill in the art to incorporate Rode's innovative address generation functionality into Ford's scheme. As with Rode, Ford is concerned with generating addresses that do not conflict with other devices' addresses within a

network [see Ford, column 2 «lines 48-51»]. Such an implementation would supplement Ford by enabling another method of generating unique network addresses for devices in Ford.

- As to claim 10, Ford discloses the method of claim 7, wherein the first network comprises a private network and the second network is a public network [Figure 5C <item 126> | column 2 lines 43-61> | column 3 lines 39-46>].
- 8> As to claim 12, Ford discloses the method of claim 7, wherein the second network comprises the Internet [Figure 5C <item 126>].
- As to claim 14, as it does not limit or further define over the previously claimed limitations, it is similarly rejected for at least the same reasons set forth for claim 7.
- As to claim 18, Ford discloses the network of claim 14, wherein the first network comprises a private network and the second network comprises a public network [Figure 5C <item 126> | column 2 lines 43-61> | column 3 lines 39-46>].
- As to claim 20, Ford discloses the network of claim 14, wherein the second network comprises the Internet [Figure 5C <i tem 126>].

- Claims 11 and 19 are rejected under 35 U.S.C § 103(a) as being unpatentable over ford and Rode, in further view of the MOST Specification Framework Rev 1.1

  ["MOST spec"].
- As to claim 11, Ford does disclose that the first network comprises s a local area network (LAN) [column 6 dines 34-37>] but does not specifically disclose that first network is a MOST network.
- The MOST spec teaches a LAN that is preferably implemented as a MOST network [sections 3 and 8]. It would have been obvious to one of ordinary skill in the art to implement Ford's LAN as a MOST network as disclosed by the MOST spec, so Ford's network can obtain the stated advantages of utilizing a higher performance optical fiber network is more robust and faster than a typical network.
- As to claim 19, as it is merely a network that implements the step of the method of claim 11, it does not teach or further define over the limitations of claim 11.

  Therefore, claim 19 is also rejected for the same reasons as set forth in claim 11, supra.
- Claims 13 and 21 are rejected under 35 U.S.C § 103(a) as being unpatentable over Ford, Rode and the MOST spec, in further view of Inoue et al, U.S Patent No. 6.163.843 ["Inoue"].

- As to claim 13, Ford does not disclose a method wherein the first network includes a firewall as an interface between the first network and the second network.
- Inoue discloses a method wherein a first network includes a firewall as an interface between the first network and a second network [Figure 2 <item 1b, 4b> | column 2 <lines 14-20>]. It would have been obvious to one of ordinary skill in the art to include a firewall in Ford's first network to securely allow the transmission of messages outside of the first network.
- As to claim 21, as it is merely a claim to a network that implements the steps of the methods of claim 13, they do not teach or further define over the limitations of claim 13. Therefore, they are also rejected for the same reasons as set forth in claim 13, supra.
- Claim 22 is rejected under 35 U.S.C § 103(a) as being unpatentable over the MOST spec, in view of Ford, in further view of Rode.
- The MOST spec discloses a multimedia system for implementation in a vehicle [section 2.1] comprising:
- a plurality of multimedia devices communicably coupled through a communication link to form a private MOST network, wherein each of said plurality of multimedia has associated therewith a first address that uniquely identifies each said multimedia device in the MOST network [sections 2.4, 2.5, 3.11.1, 4.3.3.1].

The MOST spec does not explicitly disclose that each of said plurality of multimedia devices has associated therewith a second address that uniquely identifies each said multimedia device in a public network, wherein the second address is derived by mathematically summing a predetermined number to the corresponding first address such that each second address is the sum of the first address and the predetermined number and that each second address is different than the corresponding first address.

Ford discloses a plurality of devices that has associated therewith a second address that uniquely identifies each said multimedia device in the public network, wherein the second address is derived from the corresponding first address [Figures 3A-3C | column 2 < lines 19-21> | column 3 < lines 39-46 and 47-55> | column 8 < lines 50-65> | column 6 < lines 54-60>]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include Ford's second address generation functionality into the MOST spec's multimedia network to simplify network connection, administration, and connecting to a network outside the private MOST network for MOST spec's multimedia devices [Ford – abstract].

Ford, however, does not expressly disclose mathematically summing to create the second address.

Rode is directed towards an addressing system for dynamically generating addresses for devices in a network such that the addresses are unique and do not conflict. One embodiment of Rode's innovation are devices in a car. Rode discloses

manipulating a first address of a device by mathematically summing a predetermined number and the first address to derive the second address which is the sum of the first address and the predetermined number [column 2 «lines 19-35»]. Ford is also directed towards dynamically generating addresses for devices. Thus, it would have been obvious to one of ordinary skill in the art to incorporate Rode's innovative address generation functionality into Ford's scheme. As with Ford, Ford is concerned with generating addresses that do not conflict with other devices' addresses within a network [see Ford, column 2 «lines 48-51»]. Such an implementation would supplement Ford by enabling another method of generating unique network addresses for devices in Ford.

Furthermore, Rode discloses an embodiment directed towards generating new network addresses for devices in vehicles. As the MOST specification is directed towards devices in vehicles as well, it would have been obvious to one of ordinary skill in the art to combine the prior art references to create a dynamic network addressing scheme that enables unique addressing of network devices in vehicles.

- Claims 23 and 25 are rejected under 35 U.S.C § 103(a) as being unpatentable over the MOST spec, Ford and Rode, in further view of Inoue.
- As to claim 23, the MOST spec does not disclose a multimedia system comprising a firewall residing on the MOST network for linking the MOST network to the public network.

- Inoue discloses a method wherein a multimedia system comprising a firewall residing on a mobile network for linking the mobile network to the public network [Figure 2 <items 1b, 4b, 6> | column 2 lines 14-20>]. It would have been obvious to one of ordinary skill in the art to implement Inoue's network functionality that comprises a firewall into the MOST spec's MOST network to inspect packets as they are leaving the MOST spec's MOST network and to securely allow the transmission of messages outside of the MOST network.
- As to claim 25, the MOST spec discloses the multimedia system of claim 23 wherein the public network comprises the Internet [section 2.5 see diagram "MOST Open Model' with TCP/IP network protocol embedded in one of the devices].
- Claims 7, 10, 12, 14, 18 and 20 are rejected under 35 U.S.C § 103(a) as being unpatentable over Ford et al, U.S Patent No. 6.101.499 ["Ford"] in view of Duvvury, U.S Patent No. 6.917.626.
- As to claim 7, Ford discloses a first network which can be linked to a second network, the first network including a plurality of network devices linked with one another and have an associated first address for unique identification in the first network [column 6 lines 54-57> | column 9 «lines 11-16»], a method for generating a second address for each said device comprising:

manipulating the first address of each device to derive the second address which uniquely identifies each such device in the second network [Figures 5a, 5b]

Figures 3A-3C | column 2 column 3 sp-46> | column 8 column 8 sp-65> | column 7 column 7 column 9 sp-46> | column 10 «line 55» to column 11 «line 33» where: Ford manipulates the Ethernet address of each device by appending a network identifying portion (prefix) to the Ethernet address.].

Ford does not disclose however, manipulating the first address by mathematically summing the first address with a predetermined number, the sum representing the second address.

Duvvury is directed towards an addressing system for dynamically generating addresses for devices in a network such that the addresses are unique and do not conflict. Duvvury discloses manipulating a first address of a device by mathematically summing a predetermined number and the first address to derive the second address which is the sum of the first address and the predetermined number [Figure 17 | column 10 «lines 2-7» | column 16 «lines 11-31» | claim 20 where: the device's first address (MAC) is added to a predetermined number to generate an IP address for the device]. Ford is also directed towards dynamically generating addresses for devices. Thus, it would have been obvious to one of ordinary skill in the art to incorporate Duvvury's address generation functionality into Ford's scheme. Such a combination would supplement Ford by enabling another method of generating unique network addresses for devices.

- As to claim 10, Ford discloses the method of claim 7, wherein the first network comprises a private network and the second network is a public network [Figure 5C <item 126> | column 2 lines 43-61> | column 3 lines 39-46>].
- As to claim 12, Ford discloses the method of claim 7, wherein the second network comprises the Internet [Figure 5C <item 126>].
- As to claim 14, as it does not limit or further define over the previously claimed limitations, it is similarly rejected for at least the same reasons set forth for claim 7.
- As to claim 18, Ford discloses the network of claim 14, wherein the first network comprises a private network and the second network comprises a public network [Figure 5C <item 126> | column 2 lines 43-61> | column 3 lines 39-46>].
- As to claim 20, Ford discloses the network of claim 14, wherein the second network comprises the Internet [Figure 5C <item 126>].
- Claims II and 19 are rejected under 35 U.S.C § 103(a) as being unpatentable over Ford and Duvvury, in further view of the MOST Specification Framework Rev 1.1 ["MOST spec"].

- As to claim II, Ford does disclose that the first network comprises s a local area network (LAN) [column 6 dines 34-37>] but does not specifically disclose that first network is a MOST network.
- The MOST spec teaches a LAN that is preferably implemented as a MOST network [sections 3 and 8]. It would have been obvious to one of ordinary skill in the art to implement Ford's LAN as a MOST network as disclosed by the MOST spec, so Ford's network can obtain the stated advantages of utilizing a higher performance optical fiber network is more robust and faster than a typical network.
- As to claim 19, as it is merely a network that implements the step of the method of claim 11, it does not teach or further define over the limitations of claim 11.

  Therefore, claim 19 is also rejected for the same reasons as set forth in claim 11, supra.
- Claims 13 and 21 are rejected under 35 U.S.C § 103(a) as being unpatentable over Ford, Duvvury and the MOST spec, in further view of Inoue et al, U.S Patent No. 6.163.843 ["Inoue"].
- As to claim 13, Ford does not disclose a method wherein the first network includes a firewall as an interface between the first network and the second network.
- Inoue discloses a method wherein a first network includes a firewall as an interface between the first network and a second network [Figure 2 <item 1b, 4b> |

column 2 (lines 14-20)]. It would have been obvious to one of ordinary skill in the art to include a firewall in Ford's first network to securely allow the transmission of messages outside of the first network.

- As to claim 21, as it is merely a claim to a network that implements the steps of the methods of claim 13, they do not teach or further define over the limitations of claim 13. Therefore, they are also rejected for the same reasons as set forth in claim 13, supra.
- Claim 22 is rejected under 35 U.S.C § 103(a) as being unpatentable over the MOST spec, in view of Ford, in further view of Duvvury.
- The MOST spec discloses a multimedia system for implementation in a vehicle [section 2.1] comprising:

a plurality of multimedia devices communicably coupled through a communication link to form a private MOST network, wherein each of said plurality of multimedia has associated therewith a first address that uniquely identifies each said multimedia device in the MOST network [sections 2.4, 2.5, 3.11.1, 4.3.3.1].

The MOST spec does not explicitly disclose that each of said plurality of multimedia devices has associated therewith a second address that uniquely identifies each said multimedia device in a public network, wherein the second address is derived by mathematically summing a predetermined number to the corresponding first address such that each second address is the sum of the first address and the

predetermined number and that each second address is different than the corresponding first address.

Ford discloses a plurality of devices that has associated therewith a second address that uniquely identifies each said multimedia device in the public network, wherein the second address is derived from the corresponding first address [Figures 3A-3C | column 2 dines 19-21> | column 3 dines 39-46 and 47-55> | column 8 dines 50-65> | column 6 dines 54-60>]. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include Ford's second address generation functionality into the MOST spec's multimedia network to simplify network connection, administration, and connecting to a network outside the private MOST network for MOST spec's multimedia devices [Ford – abstract].

Ford, however, does not expressly disclose mathematically summing to create the second address.

Duvvury is directed towards an addressing system for dynamically generating addresses for devices in a network such that the addresses are unique and do not conflict. Duvvury discloses manipulating a first address of a device by mathematically summing a predetermined number and the first address to derive the second address which is the sum of the first address and the predetermined number [Figure 17 | column 16 «lines 11-31» | claim 20 where : the device's first address (MAC) is added to a predetermined number to generate an IP address for the device]. Ford is also directed towards dynamically generating addresses for devices. Thus, it would

have been obvious to one of ordinary skill in the art to incorporate Duvvury's address generation functionality into Ford's scheme. Such a combination would supplement Ford by enabling another method of generating unique network addresses for devices. The combination of Duvvury, Ford and the MOST spec would create a dynamic network addressing scheme that enables unique addressing of network devices in vehicles.

- Claims 23 and 25 are rejected under 35 U.S.C § 103(a) as being unpatentable over the MOST spec, Ford and Duvvury, in further view of Inoue.
- As to claim 23, the MOST spec does not disclose a multimedia system comprising a firewall residing on the MOST network for linking the MOST network to the public network.
- Inoue discloses a method wherein a multimedia system comprising a firewall residing on a mobile network for linking the mobile network to the public network [Figure 2 <items 1b, 4b, 6> | column 2 lines 14-20>]. It would have been obvious to one of ordinary skill in the art to implement Inoue's network functionality that comprises a firewall into the MOST spec's MOST network to inspect packets as they are leaving the MOST spec's MOST network and to securely allow the transmission of messages outside of the MOST network.

As to claim 25, the MOST spec discloses the multimedia system of claim 23 wherein the public network comprises the Internet [section 2.5 - see diagram "MOST Open Model' with TCP/IP network protocol embedded in one of the devices].

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dohm Chankong whose telephone number is 571.272.3942. The examiner can normally be reached on Monday-Thursday [7:00 AM to 5:00 PM].

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571.272.3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DC

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PRIMARY EXAMINER